

LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S  
INFORMATION DISCLOSURE STATEMENT

APR 15 2002 (several sheets if necessary)

ATTY. DOCKET NO.  
612,404-384 (formerly  
267/156)SERIAL NO.  
10/072,660APPLICANT:  
Ying Huang et al.FILING DATE:  
February 6, 2002GROUP:  
1741 1753

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
ADD	US-3627137	12/71	Bier	210	321	10/68
ADD	US-4617102	10/86	Tomblin et al	204	299	03/85
ADD	US-4737259	04/88	Ogawa et al	204	299	12/86
ADD	US-4936963	06/90	Mandecki et al	204	182.8	05/89
ADD	US-5078853	01/92	Manning et al	204	299	03/91
ADD	US-5427664	06/95	Stoev et al	204	182.3	07/93
ADD	US-5593580	01/97	Kopf	210	321.75	03/95
ADD	US-5728267	03/98	Flaherty	210	321.67	11/94
ADD	US-6048690	04/00	Heller et al	435	006	05/97
ADD	US-6051380	04/00	Sosnowski et al	435	006	12/97

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
ADD	DE 2051715A	04/72	Germany (Max Planck Ges)	—	—	— ✓
ADD	GB 1359944A	07/74	GB (Miles Labs)	—	—	— —
ADD	GB 2118975A	11/83	GB (Nishizawa)	—	—	— —

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

ADD	CHENG, J., et al. "Preparation and Hybridization Analysis of DNA/RNA From E.coli On Microfabricated Bioelectronic Chips", Nature/Biotechnology, 16, pp. 541-546 (1998)
ADD	GILLES, P.N., et al. "Single Nucleotide Polymorphic Discrimination By An Electronic Dot Blot Assay On Semiconductor Chips", Nature/Biotechnology v. 17, #4, pp. 365-370 (1999).
ADD	HELLER, M.J. "An Active Microelectronics Device For Multiplex Analysis", IEEE Engineering in Medicine and Biology, pp. 100-104 (March/April 1996).
ADD	HUANG, Y., et al. "Electric Manipulation of Bioparticles and Macromolecules on Microfabricated Electrodes" Analytical Chemistry, v.73, n.7, pp. 1549-1559 (2001)

EXAMINER:

Not Yet Assigned

DATE CONSIDERED:

1/10/05

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FORM PTO-1449

ATTY. DOCKET NO.

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OFFICE OF PATENTS AND OTHER ITEMS FOR APPLICANT'S  
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APPLICANT:

Ying Huang et al.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

MANZ, A., et al., "Miniaturized Total Chemical Analysis System: A Novel Concept for Chemical Sensing" Sensors and Actuators B1, pp. 244-248 (1990)

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APR 16 2003  
TC 1700

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612404-384

10/072,660

(prev 267/156)

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**QUESTIONS AND OTHER ITEMS FOR APPLICANT'S  
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(Use several sheets if necessary)

JAN 30 2004

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
ADD	3,346,479	10/10/1967	Natelson	<del>204</del>	<del>301</del>	<del>04/09/1964</del>
ADD	3,375,187	03/26/1968	Buchler	<del>204</del>	<del>301</del>	<del>05/13/1965</del>
ADD	3,533,933	10/13/1970	Strauch	<del>204</del>	<del>180</del>	<del>04/01/1968</del>
ADD	3,539,493	11/10/1970	Dorman	<del>204</del>	<del>299</del>	<del>08/31/1967</del>
ADD	3,616,454	10/26/1971	Levy et al.	<del>204</del>	<del>299</del>	<del>03/13/1969</del>
ADD	3,640,813	02/08/1972	Nerenberg	<del>204</del>	<del>299</del>	<del>06/09/1969</del>
ADD	3,697,405	10/10/1972	K. Butter et al.	<del>204</del>	<del>275</del>	<del>11/03/1969</del>
ADD	3,773,648	11/20/1973	Van Welzen et al.	<del>204</del>	<del>299</del>	<del>10/25/1972</del>
ADD	3,791,950	02/12/1974	Allington	<del>204</del>	<del>299</del>	<del>02/14/1972</del>
ADD	3,902,986	09/02/1975	Nees	<del>204</del>	<del>299</del>	<del>04/23/1973</del>
ADD	3,980,546	09/14/1976	Caccavo	<del>204</del>	<del>299</del>	<del>06/27/1975</del>
ADD	4,111,785	09/05/1978	Roskam	<del>204</del>	<del>180</del>	<del>05/16/1977</del>
ADD	4,326,934	04/27/1992	Pohl	<del>204</del>	<del>547</del>	<del>12/31/1979</del>
ADD	4,390,403	06/28/1983	Batchelder	<del>204</del>	<del>547</del>	<del>07/24/1981</del>
ADD	4,441,972	04/10/1984	Pohl	<del>204</del>	<del>180</del>	<del>04/08/1983</del>
ADD	4,479,861	10/30/1984	Hediger	<del>204</del>	<del>180</del>	<del>07/19/1983</del>
ADD	4,661,451	04/28/1987	Hansen	<del>435</del>	<del>174</del>	<del>02/06/1984</del>
ADD	4,699,706	10/13/1987	Burd et al.	<del>204</del>	<del>301</del>	<del>05/30/1986</del>
ADD	4,787,963	11/29/1988	MacConnell	<del>204</del>	<del>180</del>	<del>05/04/1987</del>
ADD	4,877,510	10/31/1989	Chen	<del>204</del>	<del>299</del>	<del>10/25/1988</del>
ADD	4,881,107	11/14/1989	Matsushita	<del>357</del>	<del>234</del>	<del>06/29/1988</del>
ADD	4,908,112	03/13/1990	Pace	<del>204</del>	<del>299</del>	<del>06/16/1988</del>
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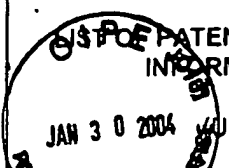
EXAMINER:

Kaj K. Olsen


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<b>FORM PTO-1449</b> 	<b>ATTY. DOCKET NO.</b> 612404-384 (prev 267/156)	<b>SERIAL NO.</b> 10/072,660
	<b>APPLICANT:</b> Ying Huang, et al.	
	<b>FILING DATE:</b> February 6, 2002	<b>GROUP:</b> 1753

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
ADD	5,085,756	02/04/1992	Swedberg	<del>204</del>	<del>299</del>	08/21/1990
ADD	5,126,022	06/30/1992	Soane et al.	<del>204</del>	<del>180</del>	<del>02/28/1990</del>
ADD	5,139,637	08/18/1992	MacConnell	<del>204</del>	<del>299</del>	09/13/1991
ADD	5,151,189	09/29/1992	Hu et al.	<del>204</del>	<del>635</del>	09/17/1990
ADD	5,161,165	09/29/1992	Huynh	<del>204</del>	<del>299</del>	04/25/1990
ADD	5,202,010	04/13/1993	Guzman	<del>204</del>	<del>299</del>	08/28/1991
ADD	5,209,831	05/11/1993	MacConnell	<del>204</del>	<del>299</del>	06/14/1991
ADD	5,217,593	06/08/1993	MacConnell	<del>204</del>	<del>299</del>	07/30/1992
ADD	5,269,931	12/14/1993	Hu et al.	<del>210</del>	<del>635</del>	08/20/1991
ADD	5,296,114	03/22/1994	Manz	<del>204</del>	<del>180.1</del>	11/30/1992
ADD	5,340,499	08/23/1994	Shukla	<del>204</del>	<del>180</del>	10/23/1992
ADD	5,344,535	09/06/1994	Betts et al.	<del>204</del>	<del>183.1</del>	04/27/1993
ADD	5,376,249	12/27/1994	Afeyan et al.	<del>204</del>	<del>180</del>	11/25/1992
ADD	5,382,511	01/17/1995	Stapleton	<del>435</del>	<del>6</del>	08/24/1992
ADD	5,445,934	08/29/1995	Fodor et al.	<del>435</del>	<del>6</del>	09/30/1992
ADD	5,434,049	07/18/1995	Okano	<del>435</del>	<del>6</del>	02/24/1993
ADD	5,451,500	09/19/1995	Stapleton	<del>435</del>	<del>6</del>	03/03/1992
ADD	5,527,670	06/18/1996	Stanley	<del>435</del>	<del>6</del>	08/09/1994
ADD	5,569,367	10/29/1996	Betts et al.	<del>204</del>	<del>547</del>	01/27/1995
ADD	5,589,047	12/31/1996	Coster et al.	<del>204</del>	<del>450</del>	04/05/1994
ADD	5,605,662	02/25/1997	Heller et al.	<del>422</del>	<del>68.1</del>	11/01/1993
ADD	5,632,957	05/27/1997	Heller et al.	<del>422</del>	<del>68.1</del>	09/09/1994
ADD	5,653,859	08/05/1997	Parton et al.	<del>204</del>	<del>450</del>	11/20/1995

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ADD	5,653,939	08/05/1997	Hollis et al.	<del>422</del>	<del>30</del>	<del>08/07/1995</del>
ADD	5,795,457	08/18/1998	Pethig et al.	<del>204</del>	<del>547</del>	<del>06/05/1995</del>
ADD	5,814,200	09/29/1998	Pethig et al.	<del>204</del>	<del>547</del>	<del>09/26/1995</del>
ADD	5,849,486	12/15/1998	Heller et al.	<del>435</del>	<del>6</del>	<del>09/27/1995</del>
ADD	5,858,192	01/12/1999	Becker et al.	<del>204</del>	<del>547</del>	<del>10/18/1996</del>
ADD	6,017,696	01/25/2000	Heller	<del>435</del>	<del>6</del>	<del>07/07/1994</del>
ADD	6,054,270	04/25/2000	Southern	<del>435</del>	<del>6</del>	<del>09/09/1997</del>
ADD	6,071,394	06/06/2000	Cheng et al.	<del>204</del>	<del>547</del>	<del>01/30/1998</del>
ADD	6,099,803	08/08/2000	Ackley et al.	<del>422</del>	<del>68.1</del>	<del>02/20/1998</del>
ADD	6,113,768	09/05/00	Fuhr et al.	<del>204</del>	<del>643</del>	<del>09/09/1996</del>
ADD	6,280,590	08/28/2001	Cheng et al.	<del>204</del>	<del>463</del>	<del>04/13/2000</del>
ADD	6,309,601	10/30/2001	Juncosa et al.	<del>422</del>	<del>68.1</del>	<del>05/01/1997</del>
ADD	6,335,161 B1	01/01/2002	Martin et al.	<del>435</del>	<del>6</del>	<del>02/25/1998</del>

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
ADD	EP 0047645 B1	11/28/1984	EP (Kashihara et al.)	—	—	— —
ADD	EP 0243501 A1	11/04/1987	EP (Saeda et al.)	—	—	— —
ADD	JP 55-152027 A	11/27/1980	JP (Keisuke et al.)	—	—	— ✓
ADD	JP 56-167419 A	12/23/1981	JP (Toshiji et al.)	—	—	— ✓
ADD	JP 59-215838 A	12/05/1984	JP (Hideo et al.)	—	—	— ✓
ADD	JP 59-227131 A	12/20/1984	JP (Hiroyuki et al.)	—	—	— ✓
ADD	JP 01163049 A	06/27/1989	JP (Satoshi et al.)	—	—	— ✓
ADD	JP 02292013 A	12/03/1990	JP (Hidekazu et al.)	—	—	— ✓
ADD	USSR 434985 A1	01/21/1975	USSR	—	—	— ✓

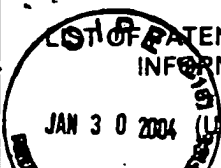
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
ADD	USSR 616568 A1	07/25/1978	USSR	—	—		✓
ADD	WO 01/13126 A1	02/22/2001	PCT (Heller et al.)	—	—		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)	
ADD	Becker et al., "The removal of human leukemia cells from blood using interdigitated microelectrodes," J. Phys. D: Appl. Phys. 27 (1994) 2659-2662.
ADD	Camag, Inc. Product Literature (Date Unknown).
ADD	Edman, C.F. et al., "Electric field directed nucleic acid hybridization on microchips", Nucleic Acids Research, Vol. 25, No. 24, pp. 4907-4914, (1997).
ADD	Fuhr et al., Positioning and Manipulation of Cells and Microparticles Using Miniaturized Electric Field Traps and Travelling Waves; Sensors and Materials, Vol. 7, No. 2 (1995) 131-146.
ADD	Fuhr, G., "Cell Manipulation and Cultivation Under AC Electric Field Influence in Highly Conductive Culture Media", Biochem. Biophys. Acta, Vol. 1158, pp. 40-46, (1993).
ADD	Markx et al., "Dielectrophoretic characterization and separation of micro-organisms", Microbiology (1994) 140, 585-591.
ADD	Markx et al., "Dielectrophoretic separation of bacteria using a conductivity gradient," Journal of Biotechnology, 51 (1996) 175-180.
ADD	Pethig R. et al., "Positive and negative dielectrophoretic collection of colloidal particles using interdigitated castellated microelectrodes," J. Phys. D: Appl. Phys. 24 (1992) 881-888
ADD	Pethig, R., "Dielectrophoresis: Using Inhomogeneous AC Electrical Fields to Separate and Manipulate Cells," Critical Reviews in Biotechnology, 16(4):331-348 (1996)
ADD	Scanning Laser Microscopy Lab, Web Site print-out, <a href="http://www.science.uwaterloo.ca/research_groups/confocal">http://www.science.uwaterloo.ca/research_groups/confocal</a> (1997)
ADD	Sosnowski, R. et al., "Rapid determination of single base mismatch mutations in DNA hybrids by direct electric field control", Proc. Natl. Acad. Sci. USA, Vol. 94, pp. 1119-1123, February 1997.
ADD	Tony Wilson and Colin Sheppard, "Theory and Practice of Scanning Optical Microscopy", Academic Press, 1984 (ISBN-0-12-757760-2)
ADD	Wang et al., "Dielectrophoretic Manipulation of Particles," IEEE Transactions on Industry Applications, Vol. 33, No. 3 (May/June 1997)
ADD	Wang, X., "A Unified Theory of Dielectrophoresis and Travelling Wave Dielectrophoresis", J. Phys. D: Appl. Phys., Vol. 27, pp. 1571-1574, 1994.
ADD	Washizu, M., "Molecular Dielectrophoresis of Biopolymers", IEEE Trans. Industry Applicat., Vol. 30, pp. 835-843, 1994.

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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

## Complete if Known

Application Number	10/072,660
Filing Date	February 6, 2002
First Named Inventor	Ying Huang
Group Art Unit	1753
Examiner Name	Alan D. Diamond
Attorney Docket Number	612404-384 (prev. 267/156)

Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number	Kind Code <sup>2</sup> (if known)		
ADD	US-4,740,283	—	Laas et al.	04/26/1988
ADD	US-5,062,942	—	Kambara et al.	11/05/1991

Examiner Initials *	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sub>6</sub>
	Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			

Examiner Initials *	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume—issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

Examiner Signature		Date Considered	11/10/05
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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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	US-5078853	01/92	Manning et al	204	299	03/91
	US-5427664	06/95	Stoey et al	204	182.3	07/93
	US-5593580	01/97	Kopf	210	321.75	03/95
	US-5728267	03/98	Flaherty	210	321.67	11/94
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	US-6051380	04/00	Sosnowski et al	435	006	12/97

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	GB 1359944A	07/74	GB (Miles Labs)			
	GB 2118975A	11/83	GB (Nishizawa)			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	CHENG, J., et al. "Preparation and Hybridization Analysis of DNA/RNA From E.coli On Microfabricated Bioelectronic Chips", Nature/Biotechnology, 16, pp. 541-546 (1998)
	GILLES, P.N., et al. "Single Nucleotide Polymorphic Discrimination By An Electronic Dot Blot Assay On Semiconductor Chips", Nature/Biotechnology v. 17, #4, pp. 365-370 (1999)
	HELLER, M.J. "An Active Microelectronics Device For Multiplex Analysis", IEEE Engineering in Medicine and Biology, pp. 100-104 (March/April 1996).
	HUANG, Y., et al. "Electric Manipulation of Bioparticles and Macromolecules on Microfabricated Electrodes" Analytical Chemistry, v.73, n.7, pp. 1549-1559 (2001)

## EXAMINER:

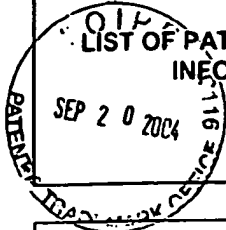
Not Yet Assigned

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	MANZ, A., et al., "Miniaturized Total Chemical Analysis System: A Novel Concept for Chemical Sensing" Sensors and Actuators B1, pp. 244-248 (1990)

Duplicate of  
IDS Filed 4/15/03

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	3,533,933	10/13/1970	Strauch	204	180	04/01/1968
	3,539,493	11/10/1970	Dorman	204	299	08/31/1967
	3,616,454	10/26/1971	Levy et al.	204	299	03/13/1969
	3,640,813	02/08/1972	Nernstberg	204	299	06/09/1969
	3,697,405	10/10/1972	K. Butter et al.	204	275	11/03/1969
	3,773,648	11/20/1973	Van Welzen et al.	204	299	10/25/1972
	3,791,950	02/12/1974	Allington	204	299	02/14/1972
	3,902,986	09/02/1975	Nees	204	299	04/23/1973
	3,980,546	09/14/1976	Caccavo	204	299	06/27/1975
	4,111,785	09/05/1978	Roskam	204	180	05/16/1977
	4,326,934	04/27/1992	Pohl	204	547	12/31/1979
	4,390,403	06/28/1983	Barthelder	204	547	07/24/1981
	4,441,972	04/10/1984	Pohl	204	180	04/08/1983
	4,479,861	10/30/1984	Hediger	204	180	07/19/1983
	4,661,451	04/28/1987	Hansen	435	174	02/06/1984
	4,699,706	10/13/1987	Burd et al.	204	301	05/30/1986
	4,787,963	11/29/1988	MacConnell	204	180	05/04/1987
	4,877,510	10/31/1989	Chen	204	299	10/25/1988
	4,881,107	11/14/1989	Matsushita	357	23.4	06/29/1988
	4,908,112	03/13/1990	Pace	204	299	06/16/1988
	4,971,670	11/20/1990	Faupel et al.	204	182.8	04/08/1988

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LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S  
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Ying Huang, et al.

FILING DATE:

February 6, 2002

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1753

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	5,085,756	02/04/1992	Swedberg	204	299	08/21/1990
	5,126,022	06/30/1992	Soane et al.	204	180	02/28/1990
	5,139,637	08/18/1992	MacConnell	204	299	03/13/1991
	5,151,189	09/29/1992	Hu et al.	204	635	09/17/1990
	5,161,165	09/29/1992	Huynh	204	299	04/25/1990
	5,202,010	04/13/1993	Guzman	204	299	08/28/1991
	5,209,831	05/11/1993	MacConnell	204	299	06/14/1991
	5,217,593	06/08/1993	MacConnell	204	299	07/30/1992
	5,269,931	12/14/1993	Hu et al.	210	635	08/20/1991
	5,296,114	03/22/1994	Manz	204	180.1	11/30/1992
	5,340,499	08/23/1994	Shukla	204	180	10/23/1992
	5,344,535	09/06/1994	Betts et al.	204	183.1	04/27/1993
	5,376,249	12/27/1994	Afeyan et al.	204	180	11/25/1992
	5,382,511	01/17/1995	Stapleton	435	6	08/24/1992
	5,445,934	08/29/1995	Fodor et al.	435	6	09/30/1992
	5,434,049	07/18/1995	Okano	435	6	02/24/1993
	5,451,500	09/19/1995	Stapleton	435	6	03/03/1992
	5,527,670	06/18/1996	Stanley	435	6	08/09/1994
	5,569,367	10/29/1996	Betts et al.	204	547	01/27/1995
	5,589,047	12/31/1996	Coster et al.	204	450	04/05/1994
	5,605,662	02/25/1997	Heller et al.	422	68.1	11/01/1993
	5,632,957	05/27/1997	Heller et al.	422	68.1	09/09/1994
	5,653,859	08/05/1997	Parton et al.	204	450	11/20/1995

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	5,653,939	08/05/1997	Hollis et al.	422	50	08/07/1995
	5,795,457	08/18/1998	Pethig et al.	204	547	06/05/1995
	5,814,200	09/29/1998	Pethig et al.	204	547	09/26/1995
	5,849,486	12/15/1998	Heller et al.	435	6	09/27/1995
	5,858,192	01/12/1999	Becker et al.	204	547	10/18/1996
	6,017,696	01/25/2000	Heller	435	6	07/07/1994
	6,054,270	04/25/2000	Southern	435	6	09/09/1997
	6,071,394	06/06/2000	Cheng et al.	204	547	01/30/1998
	6,099,803	08/08/2000	Ackley et al.	422	68.1	02/20/1998
	6,113,768	09/05/00	Fuhr et al.	204	643	09/09/1996
	6,280,590	08/28/2001	Cheng et al.	204	463	04/13/2000
	6,309,601	10/30/2001	Juncosa et al.	422	68.1	05/01/1997
	6,335,161 B1	01/01/2002	Martin et al.	435	6	02/25/1998

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	EP 0047645 B1	11/28/1984	EP (Kashihara et al.)			
	EP 0243501 A1	11/04/1987	EP (Saeda et al.)			
	JP 55-152027 A	11/27/1980	JP (Keisuke et al.)			
	JP 56-167419 A	12/23/1981	JP (Toshiji et al.)			
	JP 59-215838 A	12/05/1984	JP (Hideo et al.)			
	JP 59-227131 A	12/20/1984	JP (Hiroyuki et al.)			
	JP 01163049 A	06/27/1989	JP (Satoshi et al.)			
	JP 02292013 A	12/03/1990	JP (Hidekazu et al.)			
	USSR 434085	01/21/1975	USSR			

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	USSR 616568	07/25/1978	USSR			
	WO 01/13126 A1	02/22/2001	PCT (Heller et al.)			

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